

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480265

Luminaire Tested: **IFLD-S-SA3D-830-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480265  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

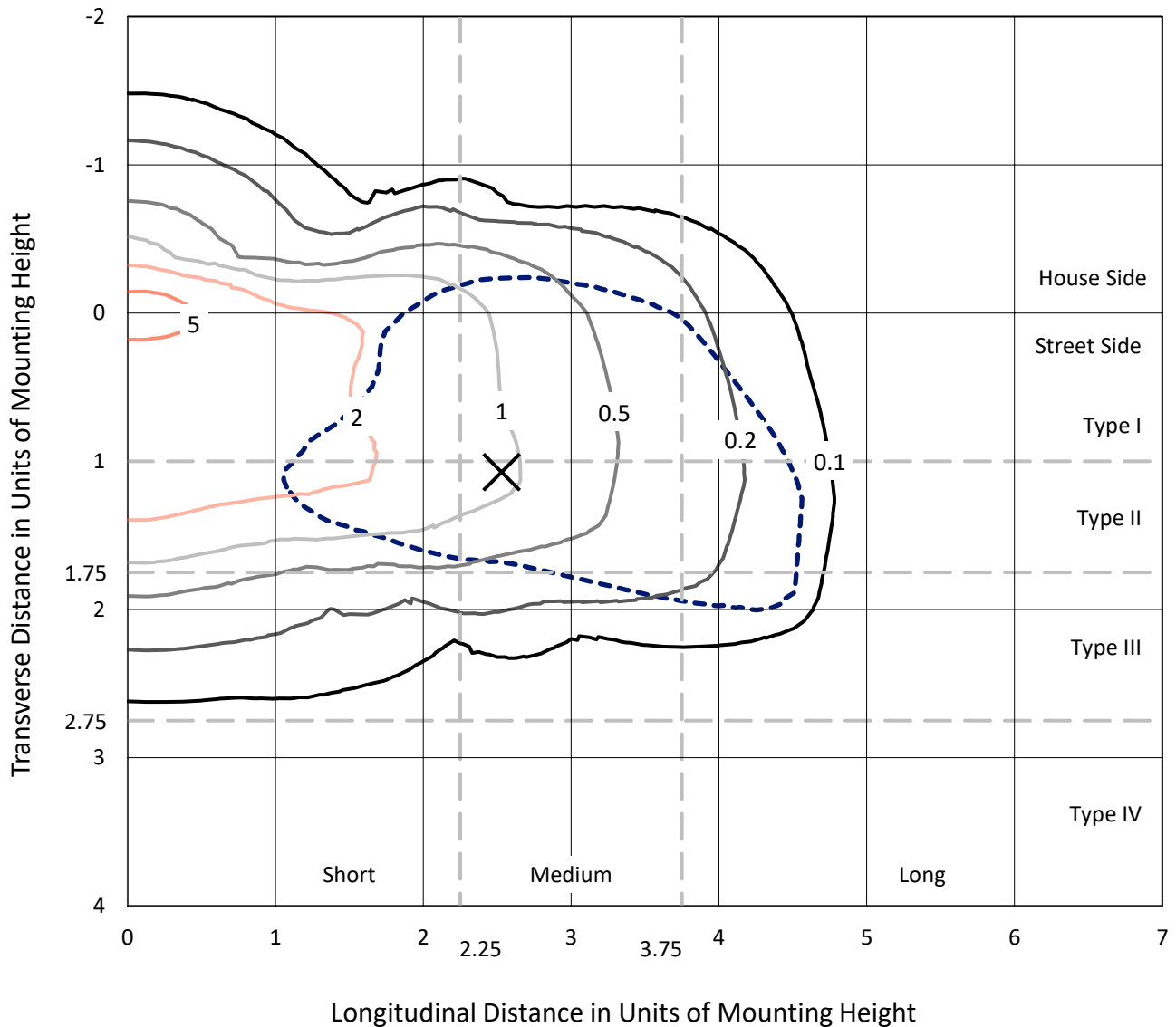
Lumens per Lamp: N/A  
Luminaire Lumens: 18465.3 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

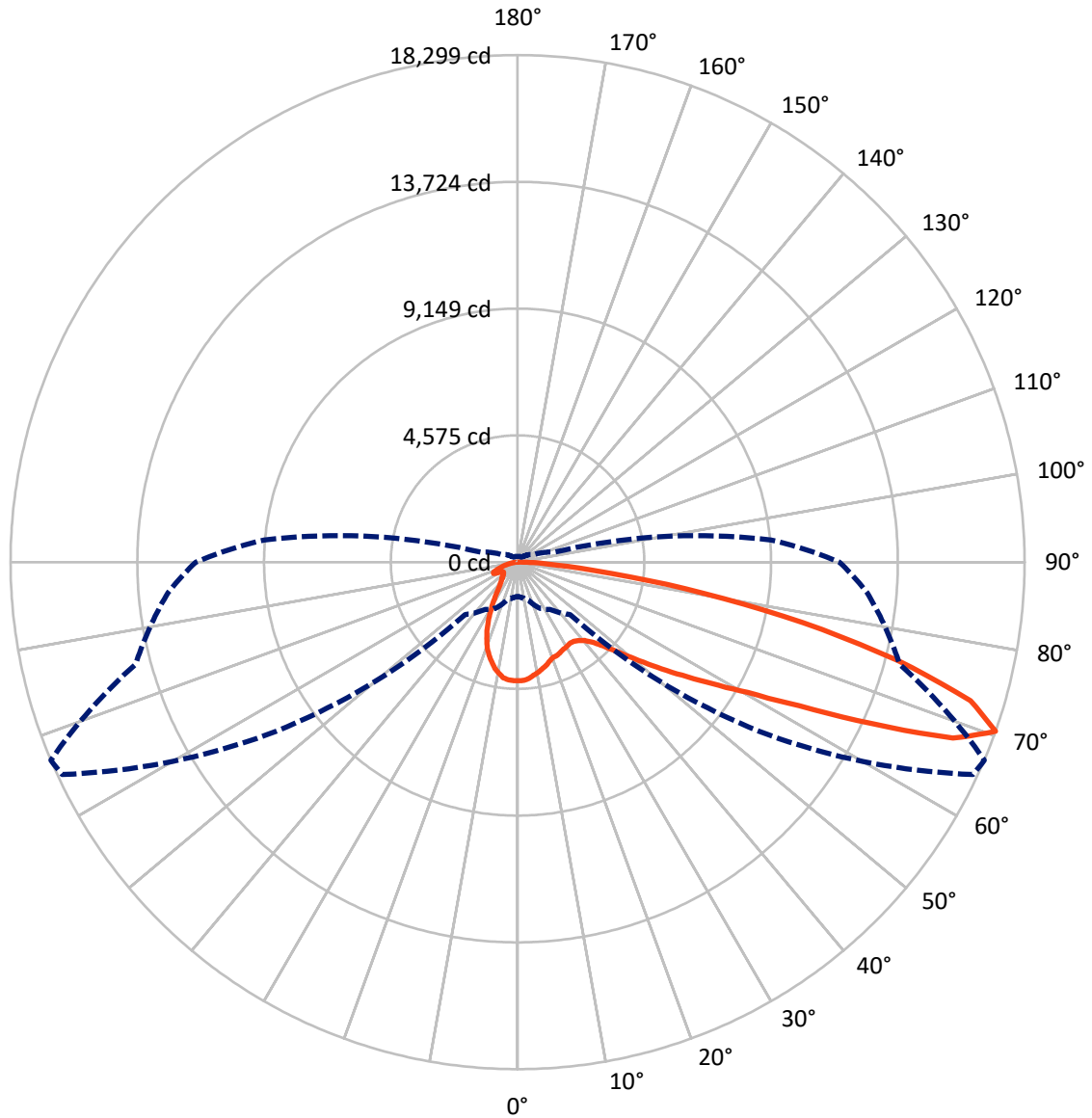
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480265  
CATALOG NUMBER: IFLD-S-SA3D-830-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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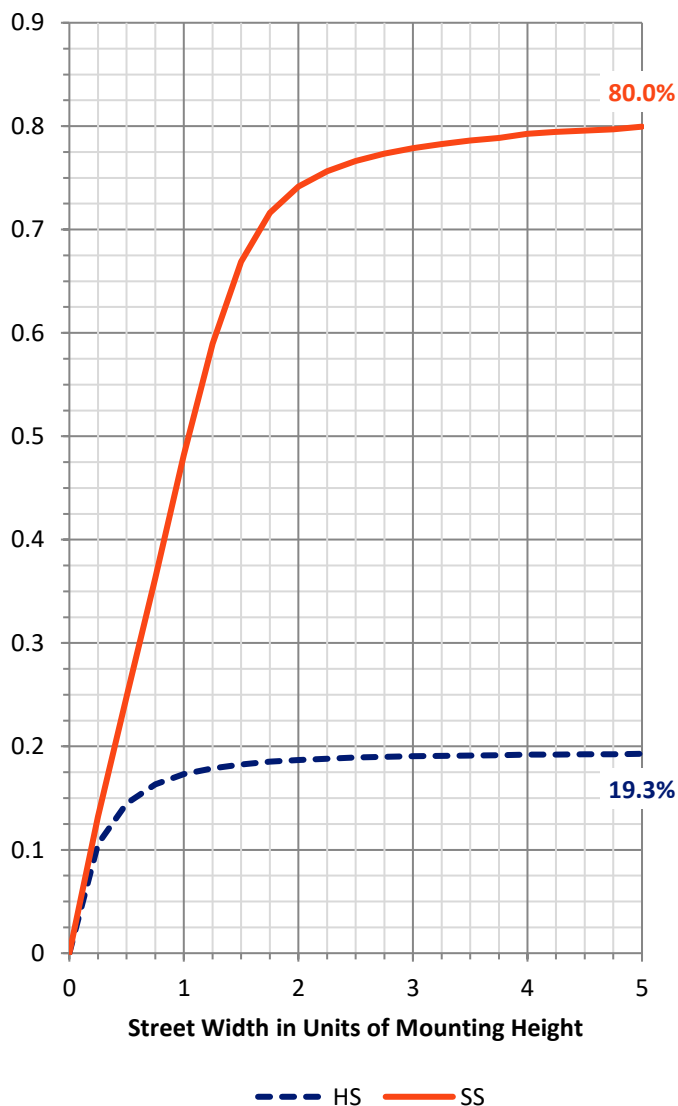
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3596.3	0.0	3596.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	14869.0	0.0	14869.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	18465.3	0.0	18465.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.0	2.0
10°-20°	893.3	4.8
20°-30°	1206.3	6.5
30°-40°	1614.1	8.7
40°-50°	2373.5	12.9
50°-60°	3699.7	20.0
60°-70°	4557.4	24.7
70°-80°	3220.2	17.4
80°-90°	527.8	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18465.3	100.0
0°-180°	18465.3	100.0

**Coefficient of Utilization**

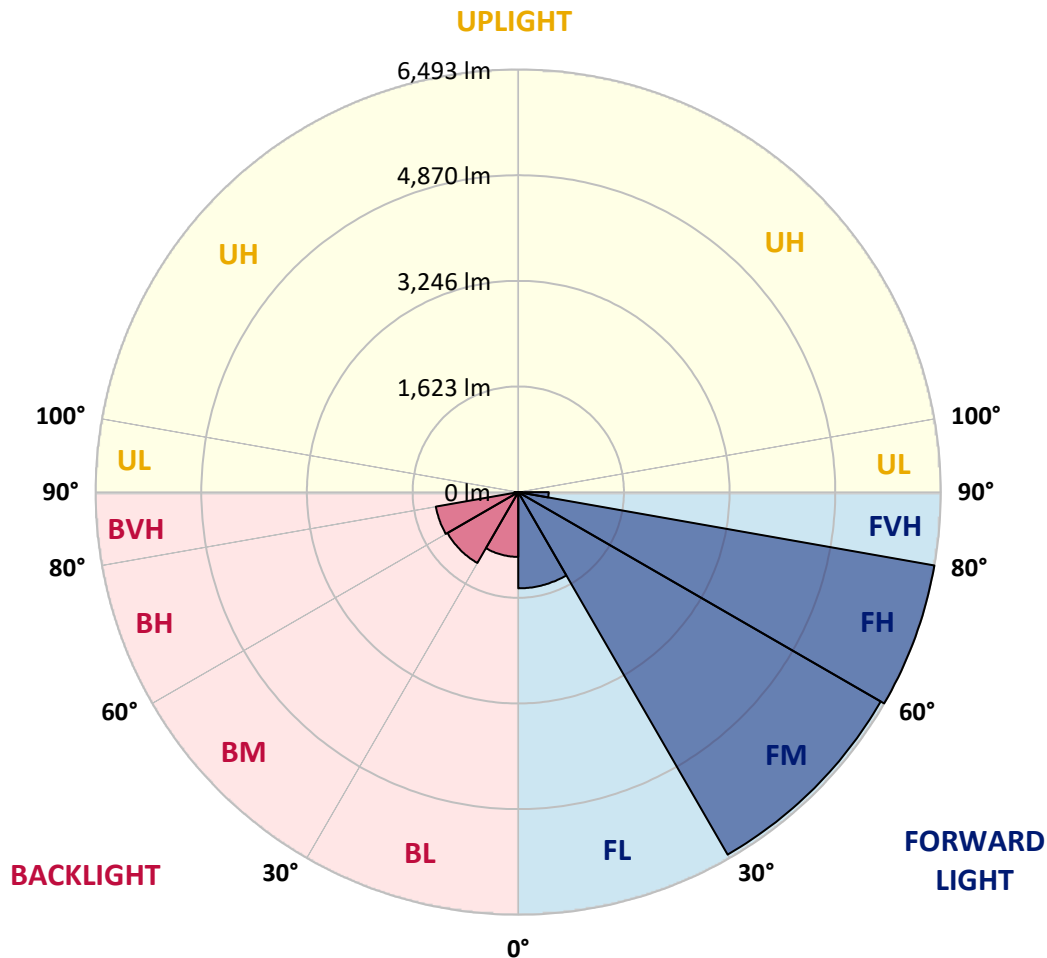


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 CATALOG NUMBER: IFLD-S-SA3D-830-U-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.0	8.0			
FM (30°-60°)	6431.0	34.8			
FH (60°-80°)	6493.0	35.2			G3/7500
FVH (80°-90°)	466.9	2.5			G3/500
BL (0°-30°)	994.5	5.4	B2/1000		
BM (30°-60°)	1256.3	6.8	B2/2500		
BH (60°-80°)	1284.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	60.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6
2.5°	3980.3	4025.2	4041.6	4066.1	4129.5	4176.5	4205.1	4237.9	4276.7	4309.4	4329.8
5°	3702.2	3726.8	3765.6	3792.2	3871.9	3998.7	4084.5	4223.5	4219.5	4270.6	4348.2
7.5°	3432.4	3456.9	3475.3	3528.5	3643.0	3757.4	3914.9	4139.7	4123.4	4241.9	4362.6
10°	3264.8	3246.4	3252.5	3342.4	3432.4	3561.2	3759.5	3988.4	4047.7	4231.7	4403.4
12.5°	3107.3	3086.9	3136.0	3193.2	3303.6	3420.1	3657.3	3863.7	3953.7	4194.9	4421.8
15°	3009.2	2994.9	3056.2	3080.8	3211.6	3350.6	3518.3	3769.7	3867.8	4149.9	4393.2
17.5°	2954.0	2966.3	2988.8	3041.9	3125.7	3244.3	3428.3	3706.3	3749.3	4094.8	4387.1
20°	2964.2	2978.6	2980.6	3003.1	3060.3	3152.3	3340.4	3638.9	3667.5	4084.5	4403.4
22.5°	3046.0	3025.6	3033.8	3019.4	3035.8	3107.3	3272.9	3548.9	3659.3	3998.7	4368.7
25°	3168.7	3140.1	3136.0	3086.9	3056.2	3076.7	3260.7	3526.4	3598.0	3972.1	4366.6
27.5°	3385.4	3342.4	3342.4	3268.8	3144.1	3111.4	3225.9	3489.6	3553.0	3947.6	4319.6
30°	3593.9	3593.9	3595.9	3491.7	3352.7	3191.2	3240.2	3475.3	3516.2	3874.0	4256.3
32.5°	3847.4	3841.3	3831.0	3779.9	3565.3	3324.0	3309.7	3456.9	3477.4	3849.4	4237.9
35°	4094.8	4078.4	4158.1	4113.1	3894.4	3583.7	3381.3	3465.1	3510.1	3812.6	4180.6
37.5°	4280.8	4291.0	4456.6	4485.2	4297.1	3878.1	3583.7	3546.9	3589.8	3865.8	4180.6
40°	4522.0	4562.9	4718.3	4814.3	4699.9	4266.5	3904.6	3683.8	3714.5	3984.4	4270.6
42.5°	4838.9	4873.6	5071.9	5196.6	5163.9	4761.2	4221.5	3970.0	3945.5	4182.7	4405.5
45°	5258.0	5264.1	5464.4	5636.2	5703.6	5278.4	4724.4	4331.9	4311.4	4524.1	4652.8
47.5°	5756.8	5750.6	5875.3	6059.3	6241.3	5895.8	5302.9	4881.8	4808.2	5012.6	5063.8
50°	6239.2	6212.7	6241.3	6476.4	6825.9	6668.5	6006.2	5554.4	5480.8	5593.2	5681.1
52.5°	6505.0	6537.7	6460.0	6770.8	7447.4	7582.3	6938.4	6357.8	6294.4	6349.6	6502.9
55°	6319.0	6386.4	6335.3	6629.7	7719.3	8696.5	8144.5	7288.0	7206.2	7185.7	7437.2
57.5°	5527.8	5650.5	5660.7	6126.8	7625.3	9559.2	9841.3	8385.8	8263.1	8054.6	8314.2
60°	4244.0	4366.6	4460.7	5012.6	6819.8	10074.4	11807.9	9947.6	9542.8	9003.1	9158.5
62.5°	2974.5	3058.3	3152.3	3491.7	5258.0	9771.8	13508.8	12147.3	11401.1	10002.8	10197.0
65°	2167.0	2232.4	2328.5	2528.8	3230.0	8085.2	14297.9	14759.9	14052.6	11274.4	11249.8
67.5°	1631.4	1672.2	1799.0	2119.9	2238.5	4994.2	13480.2	17519.7	16947.3	12687.0	12096.2
70°	1234.8	1269.5	1388.1	1827.6	2091.3	2678.0	10634.5	18135.1	18298.6	14271.3	12664.5
72.5°	850.4	889.3	1022.2	1523.0	1991.2	2124.0	6674.7	16475.1	17094.5	14923.5	12055.3
75°	521.3	547.9	625.6	1155.0	1976.8	2077.0	3673.6	13500.6	14156.8	13788.9	10546.6
77.5°	368.0	365.9	380.2	676.7	1713.1	2089.3	2265.1	9892.4	10530.2	10162.3	7157.1
80°	267.8	269.8	284.2	404.8	1163.2	2124.0	1784.7	6625.6	6815.7	5298.8	2823.2
82.5°	161.5	169.7	204.4	273.9	699.2	1917.6	1649.8	3681.8	3444.7	1700.9	776.8
85°	85.9	85.9	120.6	173.8	372.1	1431.0	1588.4	1752.0	1467.8	527.4	288.2
87.5°	20.4	20.4	34.8	69.5	149.2	684.8	1083.5	697.1	558.1	177.9	118.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6	4274.6
2.5°	4321.7	4297.1	4327.8	4266.5	4217.4	4219.5	4143.8	4139.7	4129.5	4076.4	4094.8
5°	4370.7	4350.3	4315.5	4248.1	4139.7	4031.4	3966.0	3882.1	3847.4	3829.0	3837.2
7.5°	4417.8	4381.0	4280.8	4186.7	4019.1	3814.7	3696.1	3583.7	3440.6	3424.2	3395.6
10°	4430.0	4352.3	4223.5	4023.2	3800.4	3573.5	3303.6	3095.1	2984.7	2898.8	2866.1
12.5°	4411.6	4378.9	4131.5	3874.0	3536.7	3180.9	2866.1	2571.7	2367.3	2261.0	2232.4
15°	4409.6	4352.3	4029.3	3647.0	3215.7	2751.6	2303.9	1950.3	1735.6	1647.7	1647.7
17.5°	4411.6	4274.6	3908.7	3418.1	2837.5	2209.9	1717.2	1426.9	1308.4	1296.1	1306.3
20°	4370.7	4217.4	3782.0	3148.2	2363.2	1660.0	1247.0	1128.5	1128.5	1144.8	1150.9
22.5°	4333.9	4131.5	3581.6	2815.0	1880.8	1202.1	1014.0	979.2	1018.1	1046.7	1059.0
25°	4282.8	4060.0	3377.2	2469.5	1431.0	969.0	881.1	889.3	926.1	977.2	973.1
27.5°	4209.2	3935.3	3133.9	2068.8	1065.1	836.1	813.6	817.7	856.6	879.1	875.0
30°	4125.4	3808.5	2909.1	1670.2	844.3	766.6	764.6	774.8	780.9	793.2	791.1
32.5°	4019.1	3640.9	2669.9	1298.1	760.5	727.8	719.6	713.5	719.6	717.6	711.4
35°	3943.5	3551.0	2426.6	989.4	713.5	693.0	686.9	676.7	668.5	656.2	654.2
37.5°	3923.0	3461.0	2171.1	807.5	676.7	666.4	646.0	627.6	617.4	611.2	607.2
40°	3910.8	3401.7	1921.7	709.4	646.0	635.8	611.2	586.7	576.5	570.4	572.4
42.5°	3953.7	3369.0	1668.2	660.3	619.4	601.0	574.5	545.8	543.8	539.7	545.8
45°	4105.0	3409.9	1433.1	625.6	592.8	562.2	527.4	513.1	511.1	507.0	511.1
47.5°	4448.4	3512.1	1232.7	603.1	564.2	537.7	500.9	480.4	478.4	476.3	476.3
50°	4922.7	3826.9	1065.1	576.5	545.8	509.0	474.3	451.8	447.7	439.5	439.5
52.5°	5666.8	4356.4	964.9	562.2	513.1	482.5	445.7	421.1	410.9	402.7	402.7
55°	6505.0	5012.6	946.5	537.7	478.4	449.7	417.0	392.5	382.3	372.1	368.0
57.5°	7459.7	5881.5	1077.4	521.3	453.8	417.0	380.2	357.8	349.6	339.4	335.3
60°	8349.0	6748.3	1484.2	496.8	431.3	386.4	349.6	327.1	316.9	306.6	306.6
62.5°	9377.2	7821.5	2173.1	496.8	410.9	353.7	316.9	300.5	294.4	284.2	282.1
65°	10593.6	8931.6	2676.0	527.4	404.8	325.0	286.2	269.8	263.7	257.6	255.5
67.5°	11519.7	9569.4	2301.9	609.2	431.3	300.5	255.5	245.3	241.2	235.1	231.0
70°	11617.8	9181.0	1388.1	658.3	457.9	276.0	229.0	218.7	218.7	212.6	208.5
72.5°	10736.7	8146.6	934.2	586.7	415.0	247.4	202.4	194.2	190.1	186.0	184.0
75°	8984.7	6909.8	738.0	468.1	318.9	204.4	175.8	167.6	161.5	159.5	155.4
77.5°	6034.8	4491.3	545.8	365.9	235.1	165.6	147.2	139.0	132.9	130.8	124.7
80°	2318.2	1711.1	351.6	265.8	165.6	130.8	116.5	108.3	104.3	98.1	94.0
82.5°	682.8	554.0	196.3	163.5	106.3	89.9	83.8	77.7	71.6	65.4	63.4
85°	282.1	253.5	120.6	85.9	65.4	53.2	49.1	42.9	36.8	32.7	28.6
87.5°	130.8	108.3	55.2	32.7	22.5	12.3	6.1	2.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)